



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We make Indiana a cleaner, healthier place to live.*

Mitchell E. Daniels, Jr.  
Governor

Thomas W. Easterly  
Commissioner

February 22, 2008

Northwest Regional Office  
8315 Virginia Street, Suite 1  
Merrillville, Indiana 46410  
(219) 757-0265  
(888) 209-8892 Toll Free  
(219) 757-0267 FAX  
[www.IN.gov/idem](http://www.IN.gov/idem)

-VIA CERTIFIED MAIL 7002 0510 0004 0402 3826

Kenneth L. Mentzel  
U. S. Steel, Gary Works  
1 North Broadway  
Gary, IN 46402

RE: Referral to the Office of Enforcement  
U.S. Steel, Gary Works  
Plant ID Number: 089-00121  
Gary, Lake County

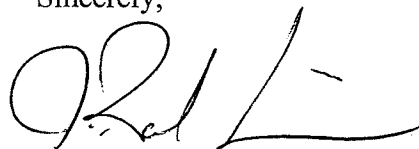
Dear Mr. Mentzel:

The Fourth (4th) Quarter 2007 Reports (October 1, 2007 through December 31, 2007) submitted by you on January 28, 2008, identified the following deviations:

- (1) Permit Condition D.2.4(a), D.2.5(e): On October 19, 2007 the allowable visible emissions for coke oven door (10%) was exceeded (11.03%) during a Method 303 inspection of No. 5 Coke Battery
- (2) Permit Condition D.2.4(c)(2): On November 18, 2007 the allowable visible emissions for coke oven pushes (20% opacity) was exceeded (30.0%) during compliance monitoring on No. 5 Coke Battery.
- (3) Permit Condition C.1(a): On November 14, 2007 the (20%) opacity six (6) minute average opacity limit was exceeded (35.0% and 29.6%) during compliance monitoring at No. 4 Blast Furnace.
- (4) Permit Condition C.1(a): On October 03, 2007 the (20%) opacity six (6) minute average opacity limit was exceeded (22.9%) during compliance monitoring at No. 8 Blast Furnace.
- (5) Permit Condition C.1(a): On October 23, 2007 the (20%) opacity six (6) minute average opacity limit was exceeded (40.6%) during compliance monitoring at No. 8 Blast Furnace.
- (6) Permit Condition D.8.4(b) and D.8.15: On October 15, 2007 the allowable roof monitor visible emissions from No.1 BOF Shop (20% opacity 3 minute average) was exceeded (24.2%) during compliance monitoring.

This matter has been referred to IDEM's Office of Enforcement for appropriate action. If formal action is initiated, you will be issued a notice of violation informing you of how to proceed in resolving this matter. Please direct any response to this letter and any questions to Dave Sampias at 219/757-0291.

Sincerely,

A handwritten signature in black ink, appearing to read 'J. Robert Simmons', with a stylized flourish extending to the right.

J. Robert Simmons  
Deputy Director  
Northwest Regional Office

JRS/dcs  
ACES No. 87097  
cc: Office of Enforcement  
File

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**PART 70 OPERATING PERMIT CERTIFICATION**

Source Name: U. S. Steel – Gary Works  
Source Address: One North Broadway, Gary, Indiana 46402  
Mailing Address: One North Broadway, Gary, Indiana 46402  
Part 70 Permit No.: T089-7663-00121  
Reporting Period: October 1, 2007 to December 31, 2007

This certification shall be included when submitting monitoring, testing report/results or other documents as required by this approval.

Please check what document is being certified:

- Test Result (specify)
- ☒ Reports (specify) Quarterly Deviation and Compliance Monitoring Report for Iron Producing  
Quarterly Deviation and Compliance Monitoring Report for Steel Producing North  
Quarterly Deviation and Compliance Monitoring Report for Steel Producing South  
Quarterly Deviation and Compliance Monitoring Report for Coke Plant  
No. 2 Precarbon Facility Compliance Monitoring  
Coke Battery Nos. 2, 5 and 7 Underfiring COMS Excess Emissions  
Coke Battery Nos. 2, 5 and 7 Underfiring Opacity Monitor Performance Audit  
Coke Battery Nos. 2, 5 and 7 Underfiring NG Injection Jets Natural Gas Usage Rates  
Semiannual Byproducts NESHAP Report (40 CFR 61, Subpart L and Subpart V)  
Semiannual Battery NESHAP Report (40 CFR 63, Subpart L)  
Coke Plant Boiler House Nos. 1 through 10 Boilers Natural Gas Usage Rates  
Coke Plant Boiler House Nos. 1 through 10 Boilers NOx Emissions  
No. 3 Sinter Plant Recirculating Burners Natural Gas Usage Rates  
No. 3 Sinter Plant Recirculating Burners Coke Oven Gas Usage Rates  
No. 3 Sinter Plant CEMS Excess Emissions  
South Sheet Mill Hydrogen Annealing Furnaces Natural Gas Usage Rates  
Turboblower Boiler House Boiler No. 6 Natural Gas Usage Rate
- Notification (specify)
- Other (specify)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature: *MS Williams*

Printed Name: Michael S. Williams

Title/Position: General Manager

Date: *1-24-08*

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**PART 70 OPERATING PERMIT  
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: U.S. Steel – Gary Works  
Source Address: One North Broadway, Gary, Indiana 46402  
Mailing Address: One North Broadway, Gary, Indiana 46402  
Part 70 Permit No.: T089-7663-00121

Months: October 1 to December 31 Year: 2007

Page 1 of 2

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

☒ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.

**Permit Requirement** (specify permit condition #) C.1(a), D.7.16

**Date of Deviation:** 10/03/07

**Duration of Deviation:** 6 minutes

**Number of Deviations:** 1

**Probable Cause of Deviation:** Clay fell out of the back of the mud gun and entered the iron trough.

**Response Steps Taken:** Revised procedures on properly loading and cleaning the mud gun.

**Permit Requirement** (specify permit condition #) C.1(a), D.7.16

**Date of Deviation:** 10/23/07

**Duration of Deviation:** 6 minutes

**Number of Deviations:** 1

**Probable Cause of Deviation:** Sleeve was not installed over the mud gun nozzle allowing clay to leak into the trough.

**Response Steps Taken:** Review of proper operating procedure with Keepers and Helpers.

<b>Permit Requirement (specify permit condition #)</b> C.1(a), D.7.16	
<b>Date of Deviation:</b> 11/14/07	<b>Duration of Deviation:</b> 6 minutes
<b>Number of Deviations:</b> 2	
<b>Probable Cause of Deviation:</b> Tilter spout and bowl areas openings.	
<b>Response Steps Taken:</b> Instructed employees to utilize blankets of k-wool over spout and bowl area openings.	
<b>Permit Requirement (specify permit condition #)</b>	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

Form Completed By: Gary Levanduski

Title/Position: Division Manager, Iron Producing

Date: January 21, 2008

Phone: 219.888.4688

Attached a signed certification to complete this report

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**PART 70 OPERATING PERMIT  
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Permit Requirement (specify permit condition #):

Date of Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Form Completed By: Casey C. Carrabine

Title/Position: Division Manager, Steel Producing North

Date: January 21, 2008

Phone: 219.888.4803

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**PART 70 OPERATING PERMIT  
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

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**Months:** October 1 to December 31 **Year:** 2007

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**Permit Requirement** (specify permit condition #) D.8.4(b), D.8.15

**Date of Deviation:** 10/15/07

**Duration of Deviation:** 3 Minutes

**Number of Deviations:** 1

**Probable Cause of Deviation:** Possibility of wind within shop carried particulate to roof monitor.

**Response Steps Taken:** Checked gas cleaner draft of furnaces through visual observation.

**Form Completed By:** Robert H. Lange

**Title/Position:** Division Manager, Steel Producing South

**Date:** January 21, 2008

**Phone:** 219.888.7435

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**PART 70 OPERATING PERMIT  
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**Permit Requirement** (specify permit condition #) D.2.4(a), D.2.5(e)

**Date of Deviation:** 10/19/2007

**Duration of Deviation:** Not applicable

**Number of Deviations:** 1

**Probable Cause of Deviation:** 15 door leaks out of 136 observed.

**Response Steps Taken:** Sealed leaks on the leaking doors.

**Permit Requirement** (specify permit condition #) D.2.4(c)(2)

**Date of Deviation:** 11/18/2007

**Duration of Deviation:** Not applicable

**Number of Deviations:** 1

**Probable Cause of Deviation:** Possible green heat.

**Response Steps Taken:** Discussed minimizing green heats procedure.



<b>Permit Requirement</b> (specify permit condition #) C.1 (b) and D.2.5 (i)	
<b>Date of Deviation:</b> 12/18/2007	<b>Duration of Deviation:</b> 15 minutes
<b>Number of Deviations:</b> 1	
<b>Probable Cause of Deviation:</b> Holes in oven No. 60 wall and decarbonizing pipe behind oven No. 24.	
<b>Response Steps Taken:</b> Turned off gas to Oven No. 60 walls and sealed hole in decarbonizing pipe.	
<b>Permit Requirement</b> (specify permit condition #) C.1 (a) and D.2.5(i) (See Attachment 1)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b> Not applicable
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

Form Completed By: Lawrence W. Sutherland

Title/Position: Division Manager, Coke Operations

Date: January 21, 2008

Phone: 219.888.4028

Attach a signed certification to complete this report.

Attachment 1

U.S. Steel - Gary Works  
Part 70 Permit No.: T089-7663-00121

Permit Requirement: C.1(a) and D.2.5(i)

Battery No. 2

Dates of Deviation:	10/01/2007 - 12/31/07
Duration of Deviation:	6 minutes/deviation
No. of Deviations:	397
Probable Cause of Deviation:	Condition of oven walls
Response Steps Taken:	Lower mushroom in air box to to reduce particulates to stack.

Battery No. 5

Dates of Deviation:	10/01/2007 - 12/31/07
Duration of Deviation:	6 minutes/deviation
No. of Deviations:	1554
Probable Cause of Deviation:	Condition of oven walls
Response Steps Taken:	Lower mushroom in air box to to reduce particulates to stack.

Battery No. 7

Dates of Deviation:	10/01/2007 - 12/31/07
Duration of Deviation:	6 minutes/deviation
No. of Deviations:	1099
Probable Cause of Deviation:	Condition of oven walls
Response Steps Taken:	Lower mushroom in air box to to reduce particulates to stack.

10/15/2007 No 1 BOP Ship Reef Monitor

0		0	0	0	0	CHM E
0		0	0	0	0	TD - M
0	8-02	15	15	5	5	GRAY N
0	8-03	0	0	0	0	BLOW E
0	8-04	0	0	0	0	
0	8-05	0	0	0	0	
0	8-06	0	0	0	0	
0	8-07	0	0	0	0	
0	8-08	0	0	0	0	TAP ON M
0	8-09	0	0	0	0	
0	8-09	0	0	0	0	
0	8-10	0	0	0	0	
0	8-11	0	0	0	0	
0	8-12	0	0	0	0	
0	8-13	0	0			
0	8-14					DARK GRAY NORTH
0	8-15					24.2%
0	8-16			15	10	
0	8-17	0	0	0	0	
0	8-18	10	5	0	0	
0	8-19	0	0	0	0	
0	8-20	0	0	0	0	
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0	8-242	0	0	0	0	
0	8-243	0	0	0	0	
0	8-244	0	0	0	0	
0	8-245	0	0	0	0	
0	8-246	0	0	0	0	
0	8-247	0	0	0	0	
0	8-248	0	0	0	0	
0	8-249	0	0	0	0	
0	8-250	0	0	0	0	
0	8-251	0	0	0	0	
0						

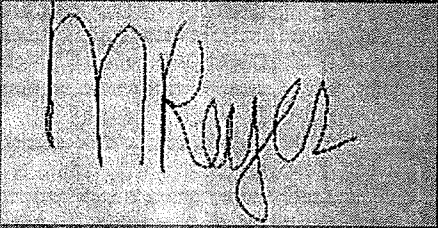
STATUS: APPROVED

Return Main

Previous

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Insp Number:	4681	Insp Date:	10/15/2007
Insp Class:	Self Monitoring	Inspector:	SIMPSON, JON
Insp Plant:	Gary Weeks		
Monitor Point:	No. 1008 Shop Roof Monitor		
Duration:	2:00:00		

## SOURCE LAYOUTS

Edit SourceLayout

Acknowledgements			
Name	Sign Off	Phone	Comments
MANGAHAS, MICHAEL		x 4116	
REYES, MAYELLA	Y	x7850	Comments

Acknowledge Users..

## CONDITIONS



1 OF 1



Create New Condition

Save Conditions

Update Conditions

Delete

Date & Time:	10/15/2007 7:00:00 AM		
Background Color:	sky	Sky Conditions:	Party Cloudy
Wind Speed:	7	Wind Direction:	SOUTH EAST
Ambient Temp:	57	Relative Humidity:	82
Wet Bulb Temp:		Plume Type:	Attached

## OBSERVATION POINTS

(Choose from Available Observation Points to Add to List; Select Obs. Point from list to enable Deletion)

Available Points:	None Selected
Minute:	0
Add	Delete

## List of Selected Observation Points:

0 SP1 Primary Location - Substation 108

Method Limit  
20% over 3 Min

Limit Type and Color

48 BF  
10/23/2007

0		0	0	0	0	
0		0	0	0	0	
0		0	0	0	0	
0		0	0	0	0	
0		0	0	0	0	
0	12.1	0	0	0	0	
0	12.2	0	0	0	0	
0	12.3	0	0	0	0	
0	12.4	0	0	0	0	
0	12.5	0	0	0	0	
0	12.6	0	0	0	0	
0	12.7	0	0	0	0	
0	12.8	0	0	0	0	
0	12.9	0	0	0	0	
0	13.0	0	0	0	0	
0	13.1	0	0	0	0	
0	13.2	0	0	0	0	
0	13.3	0	0	0	0	
0	13.4	0	0	0	0	
0	13.5	0	0	0	0	
0	13.6	0	0	0	0	
0	13.7	0	0	0	0	
0	13.8	0	0	0	0	
0	13.9	0	0	0	0	
0	14.0	0	0	0	0	
0	14.1	0	0	0	0	
0	14.2	0	0	0	0	
0	14.3	0	15	35	40	
0	14.4	60	40	20	5	
0	14.5					
0	14.6					
0	14.7					
0	14.8					
0	14.9					
0	15.0					
0	15.1					
0	15.2					
0	15.3					
0	15.4					
0	15.5					
0	15.6	75	75	100	80	
0	15.7	40	25	10	10	
0	15.8	0	0	0	0	
0	15.9	0	0	0	0	

↑  
40.6%

↓

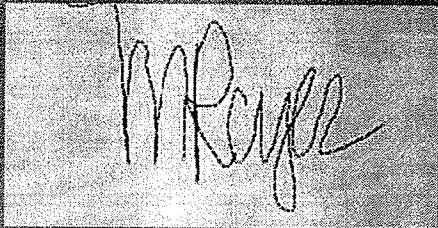
STATUS: APPROVED

[Return Main](#)

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[Next](#)



Insp Number:	4769	Insp Date:	10/23/2007
Insp Class:	Self Monitoring	Inspector:	McCLURE, DANIEL
Insp Plant:	Gary Works		
Monitor Point:	No. 8 BF Casthouse Roof Monitor		
Duration:	2 Hr		

## SOURCE LAYOUTS

[Edit SourceLayout](#)

Acknowledgements			
Name	Sign Off	Phone	Comments
MANGAHAS, MICHAEL		x 4116	
REYES, MAYELLA	Y	x7850	Comments

[Acknowledge Users..](#) [Submit](#)

## CONDITIONS

<< 1 OF 1 >> [Create New Condition](#) [Save Conditions](#) [Update Conditions](#) [Delete](#)

Date & Time:	10/23/2007 12:15:00 PM		
Background Color:	gray	Sky Conditions:	Partly Cloudy
Wind Speed:	8	Wind Direction:	NORTH
Ambient Temp:	50	Relative Humidity	91
Wet Bulb Temp:		Plume Type:	Attached

## OBSERVATION POINTS

(Choose from Available Observation Points to Add to List; Select Obs. Point from list to enable Deletion)

Available Points:	None Selected
Minute:	0
<a href="#">Add</a>	<a href="#">Delete</a>

## List of Selected Observation Points:

0 8BFC1 - E of slip and road, 10 yards S of support structure for Sinter cross over

Method Limit  
20% over 6 Min

Limit Type and Color

	0	0	0	0	1:14	0
	0	0	0	0	1:13	0
	0	0	0	0	1:12	0
	0	0	0	0	1:11	0
	0	0	0	0	1:10	0
	0	0	0	0	1:09	0
	0	10	10	10	1:08	0
	0	10			1:07	0
	0				1:06	0
	0				1:05	0
	0				1:04	0
	0				1:03	0
	0				1:02	0
	0	0	0	0	1:01	0
	0	0	0	0	1:00	0
	0	0	0	0	12:59	0
	0	0	0	0	12:58	0
	0	0	0	0	12:57	0
	0	0	0	0	12:56	0
	0	0	0	0	12:55	0
	0	0	0	0	12:54	0
	0	0	0	0	12:53	0
	0	0	0	0	12:52	0
	0	0	0	0	12:51	0
	0	0	0	0	12:50	0
	0	0	0	0	12:49	0

9/10/07

10/3/2007

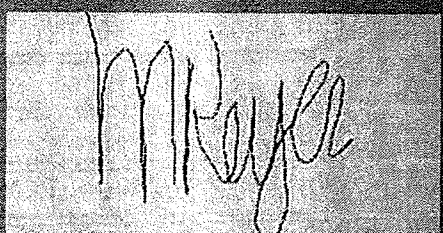
STATUS: APPROVED

Return Main

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Insp Number:	4670	Insp Date:	10/3/2007
Insp Class:	SAFETY Monitoring	Inspector:	SMITH, THOMAS
Insp Plant:	EDWARDS		
Monitor Point:	No. 8 Bldg. Westhouse Roof Monitor		
Duration:	2 Hr		

## SOURCE LAYOUTS

Edit SourceLayout

Acknowledgements			
Name	Sign Off	Phone	Comments
MANGAHAS, MICHAEL		x 4116	
REYES, MAYELLA	Y	x7850	Comments

Submit

Acknowledge Users..

## CONDITIONS

<< 1 OF 1 >> Create New Condition Save Conditions Update Conditions Delete

Date & Time:	10/3/2007 11:15:00 AM		
Background Color:	sky	Sky Conditions:	Party Cloudy
Wind Speed:	5	Wind Direction:	NORTH WEST
Ambient Temp:	65	Relative Humidity:	88
Wet Bulb Temp:		Plume Type:	Attached

## OBSERVATION POINTS

(Choose from Available Observation Points to Add to List; Select Obs. Point from list to enable Deletion )

Available Points:	None Selected
Minute:	0
Add	Delete

## List of Selected Observation Points:

0 8BFC2 - E of slip and road under support structure for Sinter cross over

Method Limit  
20% over 6 Min

Limit Type and Color



[illegible]

13% over 6 Min

# 4 BF  
11/14/2007

13.5% - USS INTERNAL AUDIT

## READINGS / OBSERVATIONS

Save Readings

Add New Session

View Exceedances

Session 0 Start Time: Hour 9 Minute: 20 AM/PM AM

Session 0 Comments:

Session	Time	:00	:15	:30	:45	Reading Comments (Minute)
0		0	0	0	0	Begin Observation
0		0	0	0	0	Cast # 146 in progress
0	9:22	0	0	0	0	
0	9:23	0	0	0	0	
0	9:24	0	0	0	0	
0	9:25	0	0	0	0	
0	9:26	0	0	0	0	
0	9:27	0	0	0	0	
0	9:28	0	0	0	0	
0	9:29	0	0	0	0	
0	9:30	0	0	0	0	
0	9:31	0	0	0	0	
0	9:32	0	0	0	0	
0	9:33	0	0	0	0	
0	9:34	0	0	0	0	
0	9:35	0	0	Q	0	
0	9:36	0	0	0	0	
0	9:37					
0	9:38					
0	9:39					BLK BRN ↑
0	9:40					BLK BRN ↑
0	9:41					BLK BRN 35.0 0/0
0	9:42					BLK BRN
0	9:43					BLK BRN
0	9:44					BLK BRN ↓
0	9:45					BLK BRN